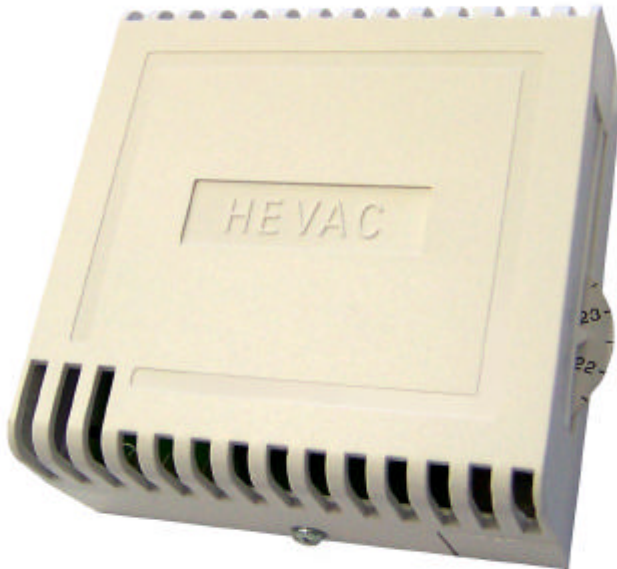


RTC3 SERIES



RTC30

ELECTRONIC ROOM THERMOSTAT

*The **RTC30** thermostat is an ideal replacement or alternative to mechanical thermostats, having a far superior accuracy and response time.*

The thermostat is designed to be used in conjunction with a remote System ON/OFF Switch or a Time Clock.

Heating & Cooling changeover is automatic with a Deadband adjustment between 2 or 3 degrees.

The setpoint adjuster can be concealed or exposed.

Features

- Australian made and designed.
- Dual supply voltage 24v or 240v A.C (User selectable).
- 5 AMP (Resistive) Potential free relay contacts.
- L.E.D Indication of all outputs.
- Selectable dead zone between Heat and Cool.
- Concealed or exposed setpoint adjustment.
- Compatibility to package AC units and Heat Pumps.

HEAD OFFICE:

Unit 7, 54 Howleys Road,
Notting Hill, Vic. 3168
Phone: (03) 9562 7888
Fax: (03) 9562 7835

VISIT OUR WEB SITE AT

www.hevac.com.au

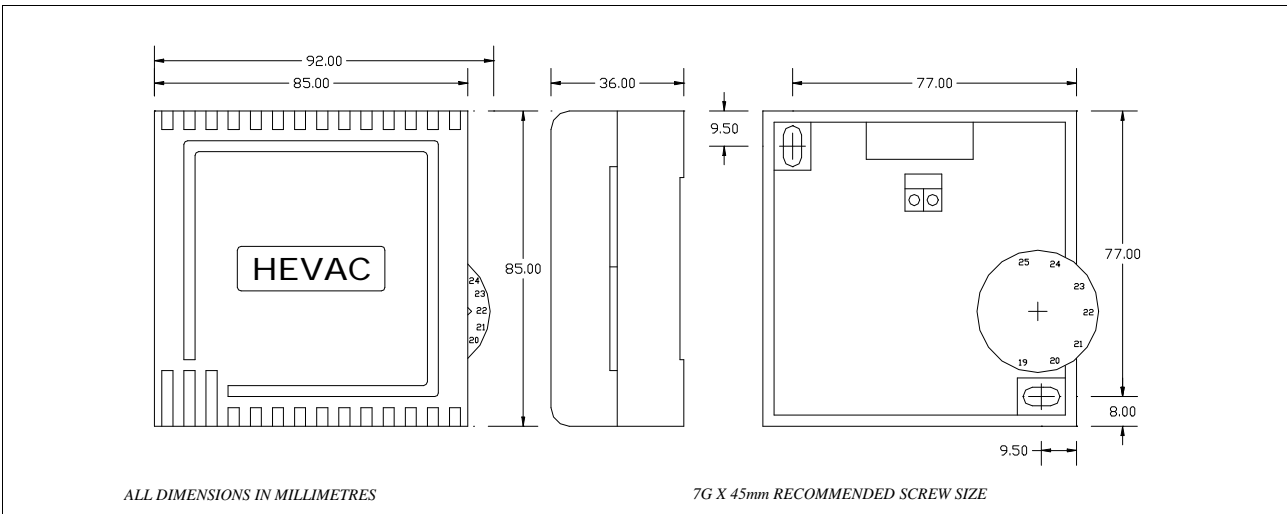
EMAIL

SALES: sales@hevac.com.au
TECHNICAL: technical@hevac.com.au

Technical Specifications

Power supply	24VAC or 240VAC
Power consumption 240 volts	7 VA
Power consumption 24 volts	1 VA
Heating and Cooling relay outputs	240VAC 5 amp resistive 2 amp inductive
Reversing valve relay outputs	240VAC 3 amp resistive 1.5 amp inductive
Temperature range	16 to 28 Degrees Centigrade
Switching differential	0.5 Degrees Centigrade
Deadzone <u>between</u> heat & cool (Factory Set to 2oC)	Selectable, 2 or 3 Degrees Centigrade
Output indication	Green LED for Cooling Red LED for Heating

Dimensions



Electrical Schematic

INTERNAL CONTACTS SHOWN IN REST STATE

USE ONLY ONE SUPPLY VOLTAGE

RVC	REVERSING VALVE FOR COOLING
H	HEATING OUTPUT
RVH	REVERSING VALVE FOR HEATING
C	COOLING OUTPUT
COM	COMMON SUPPLY TO RELAYS
24V	24 VOLT AC SUPPLY INPUT
N	NEUTRAL CONNECTION
240V	240 VOLT SUPPLY INPUT

Electrical Schematic for Heat / Cool A/C Units

TECHNICAL NOTES

“Common” Terminal
 The terminal labeled **COM** is a Potential Free Common to the Relay Outputs. Therefore the A/C Unit Control active can be either 240 Volt or 24 Volt.

* Typically this connection also loops to the appropriate supply terminal.

Supply Voltage
 The RTC-30 requires either a 240Volt AC or 24 Volt AC Supply.
 (Use **ONE** Supply Voltage Only)

Electrical Schematic for Compressor Reversing Valve Type A/c Units

Option 1

Option 2

TECHNICAL NOTES

Option 1
 Reversing Valve Energises on a HEATING CALL

Option 2
 Reversing Valve Energises on a COOLING CALL

“Common” Terminal
 The terminal labeled **COM** is a Potential Free Common to the Relay Outputs. Therefore the A/C Unit Control active can be either 240 Volt or 24 Volt.

* Typically this connection also loops to the appropriate supply terminal.

Supply Voltage
 The RTC-30 requires either a 240Volt AC or 24 Volt AC Supply.
 (Use **ONE** Supply Voltage Only)

Quick Test Information

All HEVAC Controllers are Factory Calibrated and Pre-set to Industry Standard Defaults prior to dispatch. If you require further information on these Settings please Refer to the Technical Specifications Page.

The RTC-30 Electronic Room Thermostat is equipped with a TEST Facility Jumper on the Circuit Board. Follow these Steps to perform a Quick Test.

STEP 1: Remove the shorting jumper from the NORM Position and place it in the TEST Position.

(Simulates a 22oC Setpoint)

STEP 2: Dial the Setpoint Up and confirm that the HEATING (Red) LED turns ON.

STEP 3: Dial the Setpoint Down and confirm that the COOLING (Green) LED ON.

STEP 4: **Return the TEST jumper back to the NORM Position.**